



CONSTRUCTION EQUIPMENT

32407 TRANSYSTEMS VOLVO L220H 3555 - DIESEL ENGINE



Sample No: VCP453984
Oil Type: MOBIL 15W40
Job No: 32407 TRANSYSTEMS



SAMPLE INFORMATION

Sample Number	VCP453984	VCP440147	VCP406607	VCP401920
Sample Date	09 May 2024	29 Feb 2024	23 Jan 2024	13 Dec 2023
Machine Hours	2057	1502	984	505
Oil Hours	0	0	0	505
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.6	12.1	11.2
Base Number (BN)	mg KOH/g	8.5	8.9	8.1	5.6
Oxidation (PA)	%	59	60	61	61

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.1	0.2
Nitration (PA)	%	61	60	61	73
Sulfation (PA)	%	52	53	54	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.3
Silicon	ppm	6	6	7	25
Sodium	ppm	<1	0	1	3
Potassium	ppm	2	3	0	3

WEAR METALS

Iron	ppm	5	8	5	10
Copper	ppm	4	11	55	307
Lead	ppm	<1	<1	2	<1
Tin	ppm	2	1	2	3
Aluminum	ppm	2	2	<1	2
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	59	68	68	84
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1053	1176	1164	1989
Magnesium	ppm	890	954	804	101
Zinc	ppm	1242	1275	1153	1138
Phosphorus	ppm	1072	1104	1003	936
Barium	ppm	0	0	0	0
Boron	ppm	2	6	7	45

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VOLVO1835
Unique No: 1103237
Signed: Wes Davis
Report Date: 16 May 2024



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GRAPHS

